

YOLO-SOLANO AIR QUALITY MANAGEMENT DISTRICT

1947 Galileo Court, Suite 103; Davis, CA 95618

Phone (530) 757-3650 Fax (530) 757-3670

FACILITY NUMBER: 00209

SIC CODE: 2873

AUTHORITY TO CONSTRUCT

C-12-128

IS HEREBY GRANTED TO

AGRIUM U.S. INC.

3961 Channel Drive

West Sacramento, CA 95691

EQUIPMENT LOCATION: 3961 Channel Drive; West Sacramento, CA

TO CONSTRUCT

PROCESS DESCRIPTION: Bulk ammonia warehousing and transfer; modification of P-70-78(a1) to replace one refrigeration condenser with a similar unit. The permit equipment inventory will also be updated to reflect the removal of two ammonia tanker truck loadout racks.

EQUIPMENT INVENTORY: Two (2) 7,500,000 gallon bulk ammonia storage tanks (F-250A & F-250B); one (1) 45,000 gallon bullet tank (F-350); two (2) tanker truck loadout racks; one (1) railcar tanker loadout rack; and all associated process lines, compressors, heaters, condensers, and refrigeration units

- Total Billing: Schedule 5, 15 Million Gallons -

CONTROL EQUIPMENT INVENTORY:

One (1) Zeeco flare, Model UF-12W (Two Pilots: 0.50 MMBtu/hr (combined) firing on natural gas, or 0.602 MMBtu/hr (combined) firing on propane), and associated header; two (2) two-stage compressor trains (Train A: 1st Stage GC-250A, 2nd Stage GC-251A; Train B: 1st Stage GC-250B, 2nd Stage GC-251B); one (1) vent condenser (E-251); one (1) vapor return header connected to the loading racks and small relief valves; two (2) ammonia refrigeration condensers (E-250A and E-250B); and one (1) ammonia accumulator (F-251)

PERMITTED EMISSION LIMITS:

	Daily	Qtr #1 (Jan 1-Mar 31)	Qtr #2 (Apr 1-June 30)	Qtr #3 (July 1-Sept 30)	Qtr #4 (Oct 1-Dec 31)	Yearly
Pollutant	[lb]	[lb]	[lb]	[lb]	[lb]	[tons]
VOC	0.1	6	6	6	6	0.01
CO	0.3	21	21	21	21	0.04
NO _x	1,397.4	7,193	7,196	7,198	7,198	14.39
SO _x	0.2	16	16	16	16	0.03
PM ₁₀	28.2	148	148	148	148	0.30

PERMITTED PROCESS LIMITS:

	Daily	Qtr #1 (Jan 1-Mar 31)	Qtr #2 (Apr 1-June 30)	Qtr #3 (July 1-Sept 30)	Qtr #4 (Oct 1-Dec 31)	Yearly
Ammonia to Storage Tanks [tons]	28,000	200,000	200,000	200,000	200,000	200,000
Continuous Ammonia to Flare [tons]	0.067	6.026	6.093	6.160	6.160	24.440
Maintenance/ Upset Ammonia to Flare [tons]	72.0	360.0	360.0	360.0	360.0	1,440.0
Natural Gas [million cubic feet]	0.012	1.080	1.092	1.104	1.104	4.380
Propane [million cubic feet]	0.006	0.040	0.040	0.040	0.040	0.159

The following information is included to inform and assist the Permit Holder in achieving compliance with applicable provisions of Federal, State, and District Rules and Regulations. The following set of referenced regulations are not intended to be either comprehensive or exclusive, nor are they intended to be emission limiting permit conditions, but they are still applicable rules of the District. Occasionally laws are amended. The amended versions of the referenced rules shall be deemed to be in effect. **It is the Permit Holder's responsibility to comply with all applicable Rules and Regulations.**

1. The Permit Holder shall submit the Permit Notification Card after completing construction, installation, initial adjustment, or shakedown, and no later than 48 hours after beginning actual operation of the equipment listed in the Authority to Construct (ATC). For modifications of existing permits not requiring a physical change, the Permit

Holder shall submit the Permit Notification Card no later than 48 hours after beginning operation of the equipment under the revised conditions of this ATC. The Permit Notification Card serves as the Permit to Operate (PTO) application, while the ATC and its conditions shall function as a temporary PTO until the final PTO is issued or denied. Operation beyond the shakedown period and the allowable 48 hours of actual operation without the submission of a Permit Notification Card will be considered operation without a valid permit and may be subject to enforcement action. [District Rule 3.1, §402]

2. The District requires an inspection of the equipment after completion of the construction and prior to the issuance of the Permit to Operate. [District Rule 3.1, §402]
3. An authorization to construct shall remain in effect only until the application for Permit to Operate is granted or denied; however, such an authorization shall not remain in effect beyond two years from the date of issuance unless the District finds that the time required for construction requires an extension and grants one or more extensions, for a total time not to exceed five years from the date of issuance. [District Rule 3.1, §407]

The following set of conditions are established by the District to provide enforceable operating parameters as authorized by California Health and Safety Code Section 42301 and District Rule 3.1, Section 402. If any of the rules and regulations referenced below are amended subsequent to the issuance date of this permit, resulting in the amended rule differing from or superseding the corresponding condition, then the Permit Holder shall be required to comply with the amended rule or regulation and shall no longer be required to comply with the superseded condition.

4. The Permit Holder shall not discharge into the atmosphere from any single source of emissions whatsoever, any air contaminant for a period or periods aggregating more than three (3) minutes in any one (1) hour which is:
 - a. As dark or darker in shade than No. 1 on the Ringelmann Chart; or
 - b. Greater than 20% opacity. [District Rule 3.4]
5. The Permit Holder shall operate at least one train of compressors, or the flare, or both control devices, at all times when the permitted equipment is in operation. [District Rule 3.4]
6. A non-resettable, totalizing fuel flow meter shall be installed and utilized to measure the quantity (in cubic feet) of natural gas and propane combusted in the flare. [District Rule 3.4]
7. The Permit Holder shall on a quarterly basis maintain and record the individual quantities of continuous and maintenance/upset ammonia vapors combusted in the flare. The individual quantities may be measured or calculated. [District Rule 3.4]
8. The Permit Holder shall on a quarterly basis maintain and record the individual quantities of natural gas and propane combusted in the flare. [District Rule 3.4]
9. All records shall be maintained for a period of five (5) years and shall be made available for District inspection upon request. [District Rule 3.4]

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, Chapter 3, of the Health & Safety Codes of the State of California or the Rules and Regulations of the Yolo-Solano Air Quality Management District.

Mat Ehrhardt, P.E.
AIR POLLUTION CONTROL OFFICER

By: _____

Date of Issuance: _____

ADM